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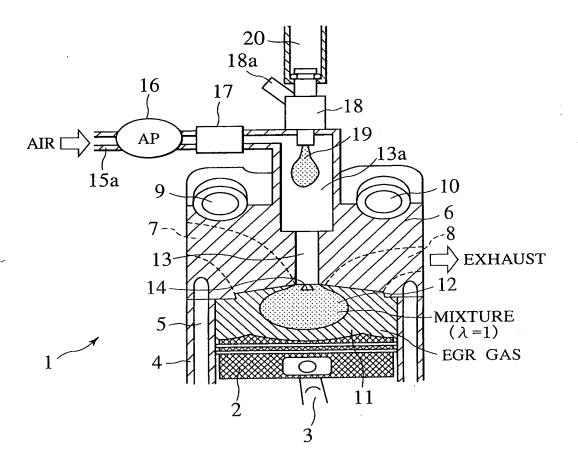
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FIG.1



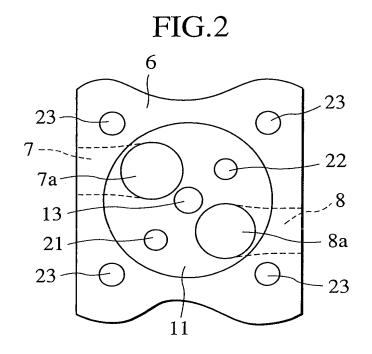
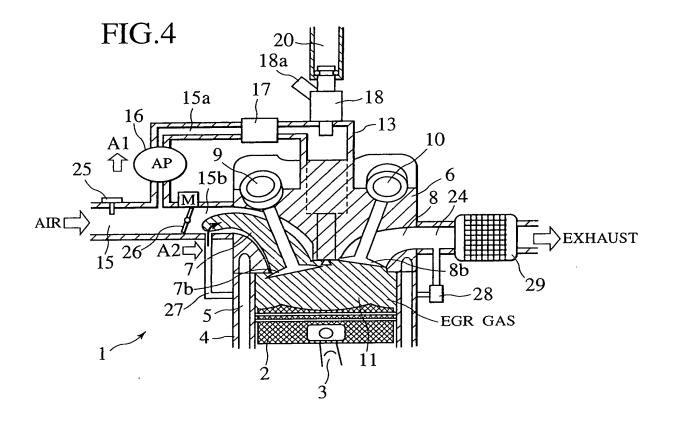


FIG.3A FIG.3B FIG.3C

MIXTURE $(\lambda=1)$ $(\lambda=1)$ $(\lambda=1)$ $(\lambda=1)$ $(\lambda=1)$



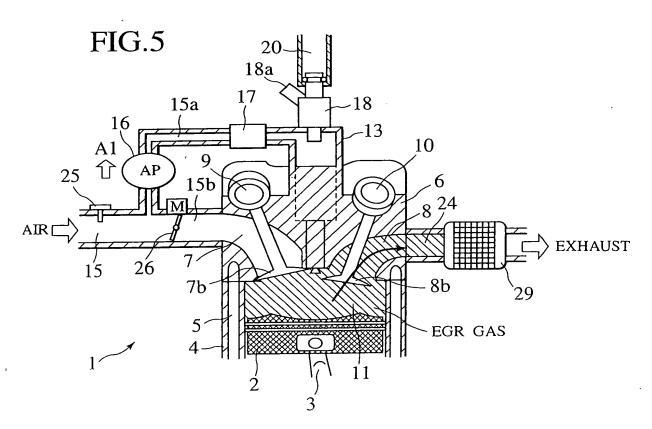
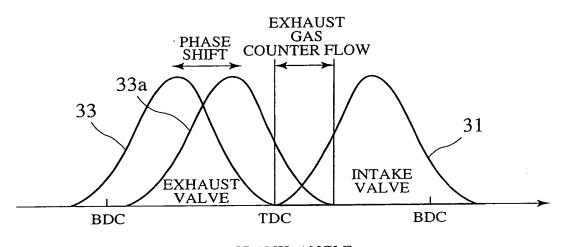
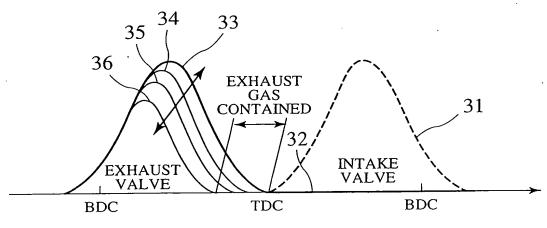


FIG.6

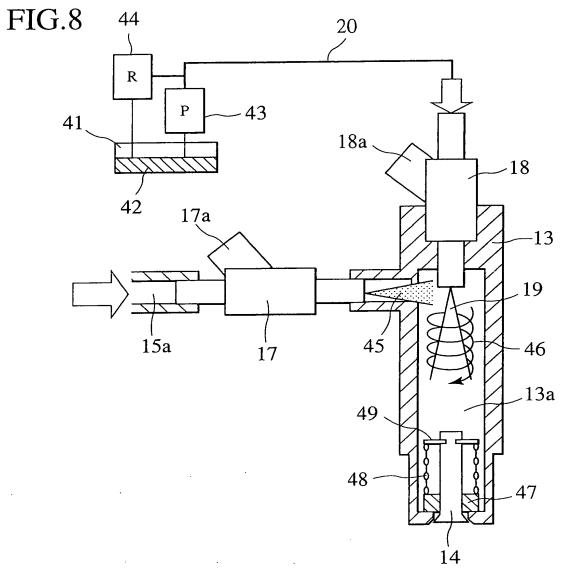


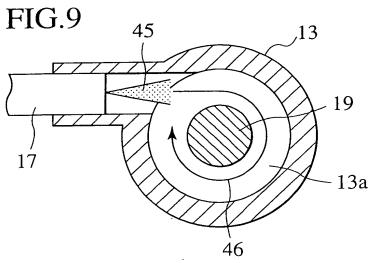
CRANK ANGLE

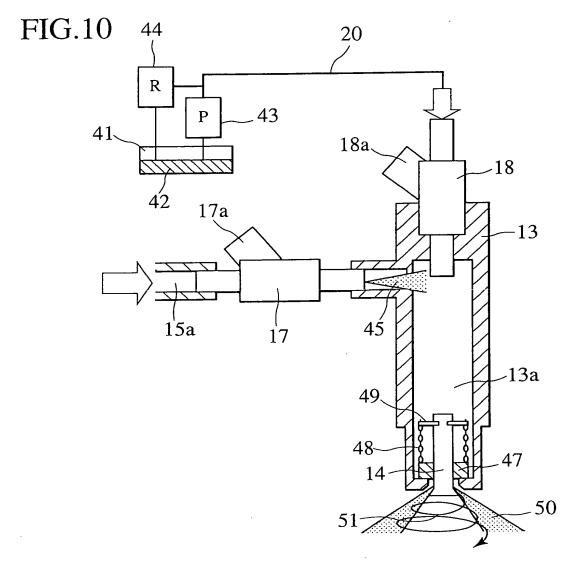
FIG.7



CRANK ANGLE







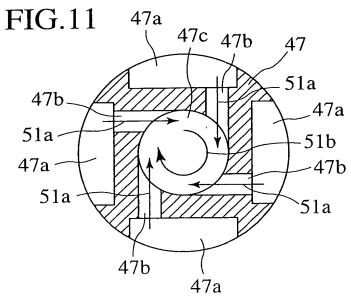


FIG.12

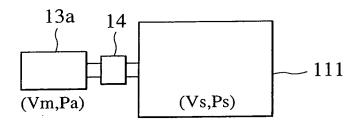
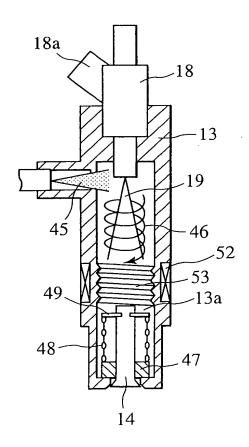
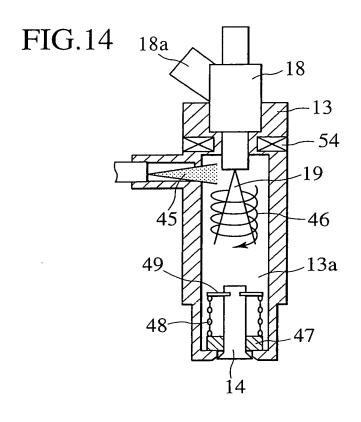


FIG.13





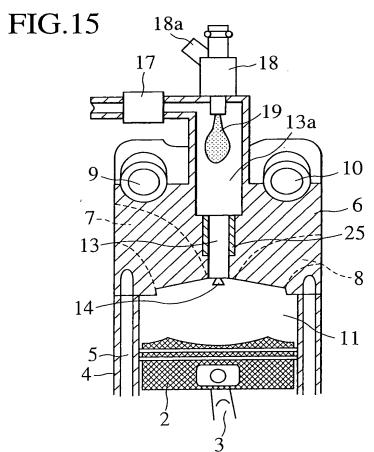


FIG.16

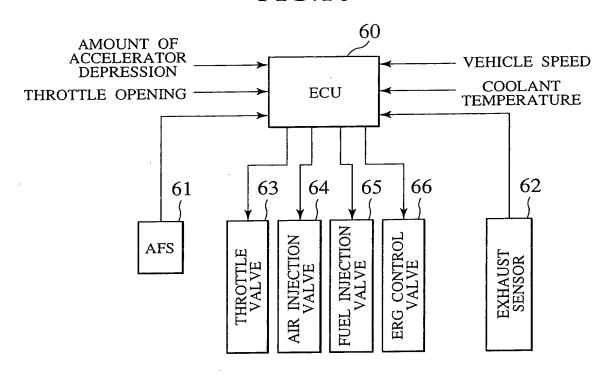


FIG.17

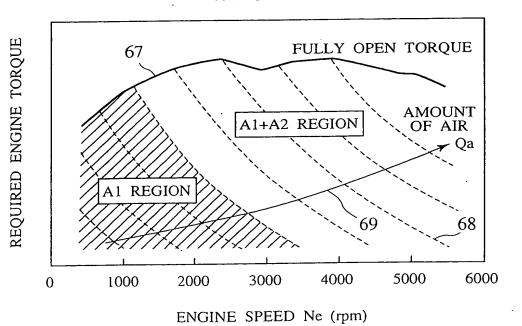


FIG.18

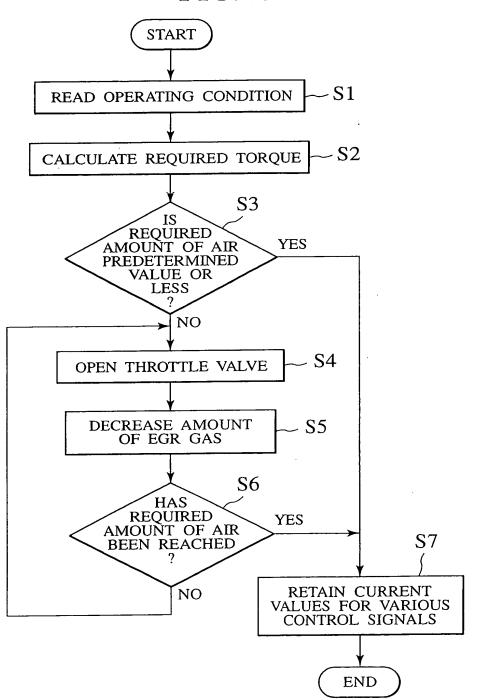


FIG.19 **START** -S1 READ OPERATING CONDITION -S2CALCULATE REQUIRED TORQUE **S**3 REQUIRED YES AMOUNT OF AIR **PREDETERMINED** VALUE OR LESS NO -S4 OPEN THROTTLE VALVE CHANGE CONTROLLING -S5 QUANTITY OF VARIABLE INTAKE VALVE CHANGE CONTROLLING QUANTITY OF VARIABLE EXHAUST VALVE -S6 **S**7 HAS REQUIRED YES AMOUNT OF AIR **S8** BEEN REACHED RETAIN CURRENT NO VALUES FOR VARIOUS CONTROL SIGNALS **END**